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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,440	01/12/2006	Yoshiaki Obama	Q77244	7441
23373	7590	09/01/2009		
SUGHTRUE MION, PLLC			EXAMINER	
2100 PENNSYLVANIA AVENUE, N.W.			KOSACK, JOSEPH R	
SUITE 800				
WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			1626	
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			09/01/2009	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/564,440	<b>Applicant(s)</b> OBANA ET AL.
	<b>Examiner</b> Joseph R. Kosack	<b>Art Unit</b> 1626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 04 May 2009.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 5,6,9-13 and 21-27 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) 6,9,10,12,13 and 21-24 is/are allowed.

6) Claim(s) 5,11 and 25-27 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_

### **DETAILED ACTION**

Claims 5, 6, 9-13, and 21-27 are pending in the instant application.

#### ***Amendments***

The amendment filed on May 4, 2009 has been acknowledged and has been entered into the instant application file.

#### ***Previous Claim Objections***

Claims 5, 6, 9-13, and 21-25 were previously objected to as being dependent upon a rejected base claim.

As the claims are no longer dependent on the rejected base claim, the objection is withdrawn.

#### ***Previous Claim Rejections - 35 USC § 103***

Claims 1, 3, 7, 26, and 27 were previously rejected under 35 U.S.C. 103(a) as being unpatentable over Obana et al. (WO 01/24924, corresponds to USPN 6,706,919).

The Applicant has amended the claims in order to try and remove the non-patentable subject matter, but has reintroduced non-patentable subject matter in claims 5, 11, and 25-27. Therefore, the rejection is maintained for claims 26 and 27 and is withdrawn for cancelled claims 1, 3, and 7.

#### ***Expansion of Search***

Even though rejections remain on the elected species, the search has been expanded to encompass the entire scope of the current claims.

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 5, 11, and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Obana et al. (WO 01/24924, corresponds to USPN 6,706,919).

Obana et al. teach a process for making a catalyst for the production of acetic acid by loading onto a silica support the following: palladium, zinc, tellurium, and 1,12-

silicotungstic acid hexacohydrate. See page 31, Example 5 in the WO document. This corresponds to Example 5, column 18, lines 21-27 of USPN 6,706,919.) Obama et al. also teach using the catalyst to produce acetic acid by reacting ethylene and oxygen in the gas phase. See column 21, Example 10, the whole column.

Obama et al. do not teach where the palladium is loaded two steps instead of one, where the second step includes loading the heteropolyacid.

Since the claims do not specify when the palladium loading steps must occur and in what fashion they must occur, it would be obvious to those of ordinary skill to load one portion of the palladium in one step and the other portion of the palladium in a second step immediately following the first one. Additionally, the claims do not state that in the second step that the palladium and heteropolyacid be loaded at the exact same time. With the scope of the claims, this loading can occur by adding the palladium solution in aliquots to the silica support with each aliquot being a palladium loading step. Performing the palladium and heteropolyacid addition in this fashion would predictably make the prior art catalyst and therefore the claims are *prima facie* obvious over the prior art.

#### ***Conclusion***

Claims 5, 11, and 25-27 are rejected. Claims 6, 9, 10, 12, 13, and 21-24 are currently allowable.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph R. Kosack whose telephone number is (571)272-5575. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571)-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph R Kosack/  
Examiner, Art Unit 1626

/REI-TSANG SHIAO /  
Primary Examiner, Art Unit 1626